TC-D607

SERVICE MANUAL

AEP Model UK Model E Model Australian Model



· This set is the cassette deck section in LBT-D607/D607CD.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

TC-H1600
DECK A: TCM-190RA12C DECK B: TCM-190RB22C

SPECIFICATIONS

Recording system Frequency response

4-track 2-channel stereo DOLBY NR OFF With Type IV cassette (Sony METAL-ES) 30 Hz to 15 kHz (±3 dB)

With Type II cassette (Sony UX-S) 40 Hz to 14 kHz (±3 dB) With Type I cassette (Sony HF-S) 40 Hz to 14 kHz (±3 dB) ±0.2% (DIN)

Wow and flutter Weight Dimensions

Approx. 3.5 kg (8 lbs 1 oz) Approx. 355 x 131 x 304 mm (14 x 5¹/₄ x 12 inches) (w/h/d, including projections)

Design and specifications are subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.



STEREO CASSETTE DECK

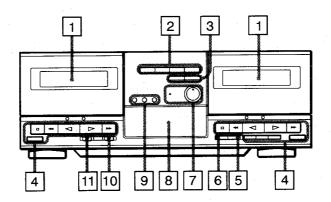
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SECTION 1 GENERAL

This section is extracted from instruction manual.

Location of Controls



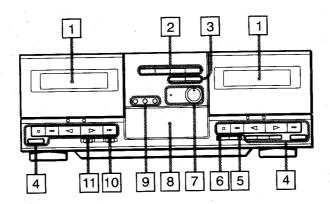
- 1 Cassette holders
- 2 AUTO CD SYNCHRO REC buttons and indicators C.(Cross) FADE (29) FADE (28) EDIT (31) TIME (31)
- 3 SYNCHRO DUBBING buttons (24)
- 4 Tape operation buttons ◄ Leftward fast winding/AMS*, ► Rightward fast winding/AMS*, ► Forward play, ◀ Reverse play, ■ Stop, ♠ EJECT, ■ PAUSE(deck B only), ○ REC MUTE Record muting (deck B only), ● REC Record (deck B
- 5 FADER button (22)
 6 ARL (Automatic recording level) button and indicator (21)
- REC (recording) LEVEL control and indicator (20)
- Display window
- COUNTER setting buttons (19) A/B, MEMORY and RESET button
- DOLBY NR (noise reduction) selector (20)
- 11 DIRECTION MODE selector (17, 20, 24)

^{*} AMS is the abbreviation of Automatic Music Sensor.

SECTION 1 GENERAL

This section is extracted from instruction manual.

Location of Controls



- Cassette holders
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 A/B, MEMORY and RESET button
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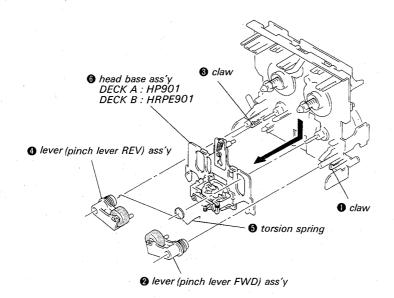
SECTION 2

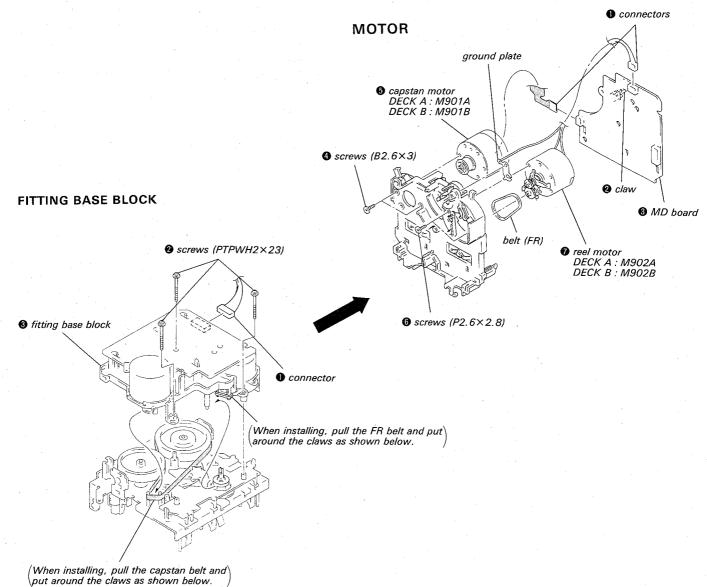
DISASSEMBLY NOTE: Follow the disassembly procedure in the numerical order given. CASE Unscrew the four case attachment screws $M3\times 8$ and remove the case. FRONT PANEL CN802 2 Remove the connectors. CN505 8 front panel ass'y ·CN507 CN506 CN801 CN803 ① screws (BVTP3×8) **MECHANISM DECK** • Press the EJECT button. 2 cassette lid Remove the cassette holder assembly.

6 mechanism deck

3 screws (BVTP2.6×8)

HEAD





SECTION 3 MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcoholmoistened swab;

record/playback/erase head

pinch roller

rubber belts

capstan

idler

2. Demagnetize the record/playback head with a head demagnetizer.

(Head demagnetizer do not approach for the erase head.)

- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed in the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD:	CQ-102C	35 to 60g · cm (0.49 to 0.83 oz · inch)
FWD Back tension	CQ-102C	2 to 6g·cm (0.03 to 0.08 oz·inch)
REV	CQ-102RC	35 to 60g · cm (0.49 to 0.83 oz · inch)
REV Back tension	CQ-102RC	2 to 6g·cm (0.03 to 0.08 oz·inch)
FF, REW	CQ-201B	70 to 110g · cm (0.98 to 1.52 oz · inch)

SECTION 4 ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in the service manual. As a rule, adjustment about playback should be performed before adjustment about recording.

The adjustments should be performed for both L-CH and R-CH.

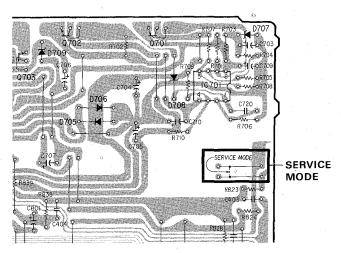
• Test Mode

The Test mode is activated by shorting Test Point Service mode (IC805 34 pin changes over to "L") with the POWER switch in OFF position, then turning on the POWER switch.

In this mode, the following functions operate:

- Source monitor
 Line mute is cancelled during recording.
- High speed playback
 High speed playback is executed when the HIGH SPEED
 (DUBBING) button is jpressed during playback. Normal
 speed playback is restored when the button is pressed
 again.
- Record memory
 The tape counter is reset to "0" at the record start point.
 After adjustment, open the Service mode to cancel the Test mode.

[MAIN BOARD] (CONDUCTOR SIDE)



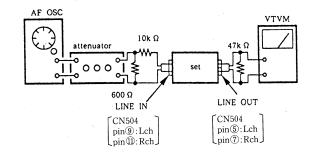
 Switches and controls should be set as follows unless otherwise specified.

DD NR switch: OFF
DIR MODE switch:

• Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

- Record Mode-



Standard Input Level

input_terminal	LINE IN
source impedance	10kΩ
input level	0.25V (-10dB)

Standard Output Level

output terminal	LINE OUT
load impedance	47kΩ
output level	0.44V (-5dB)

Test tape

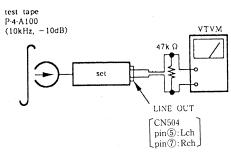
Туре	Signal	Used for
P-4-A100	10kHz, -10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

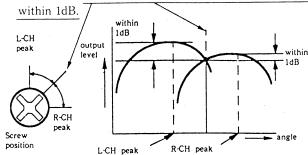
DECK A DECK B

Procedure:

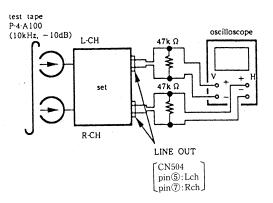
1. Mode: FWD playback

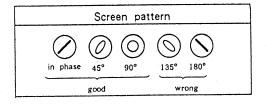


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together



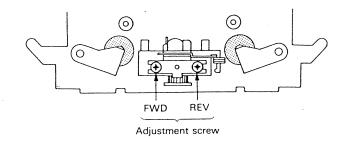
3. Phase Check Mode: playback





- 4. Set in the REV mode and repeat the step 1-3.
- 5. After the adjustment, lock the screws with locking compound.

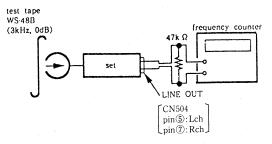
Adjustment Location: Record/playback head



Tape Speed Adjustment DECK A DECK B

Procedure:

Mode: playback



Perform high speed adjustment before normal speed adjustment.

(High speed adjustment)

- 1. Continue pressing the SYNCHRO DUBBING HIGH SPEED switch.
- 2. Check that frequency counter reading is within the standard value $6{,}000\pm60$ Hz.
- 3. If out of the standard, adjust each RV72 so that the frequency counter reading satisfies $6,000\pm60$ Hz on both A and B decks.
- 4. Change over to Rev playback status, and repeat the above steps 1 to 3.

(Normal speed adjustment)

- Continue pressing the SYNCHRO DUBBING NORM SPEED switch.
- 2. Check that the frequency counter reading is within the standard value $3,000 \pm 30$ Hz.
- 3. If out of the standard, adjust each RV71 so that the frequency counter reading satisfies 3,000±30Hz on both A and B decks.
- 4. Change over to REV playback status, and repeat the above steps 1 to 3.

Frequency difference between the beginning and the end of the tape should be within 3%.

Frequency difference between deck A and deck B the beginning of the tape should be within 1.0%.

Adjustment Location:

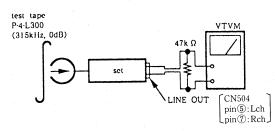
MD-A, MD-B board

Playback Level Adjustment

DECK A DECK B

Procedure:

Mode: playback



Adjust RV11 (L-CH), RV21 (R-CH) so that the reading on VTVM meets the adjustment limits below.

Adjustment Limits:

LINE OUT level: $-7.7 \pm 0.5 dB (0.30 - 0.33 V)$

Level difference between channels: less than 0.5dB Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: MD-A, MD-B board

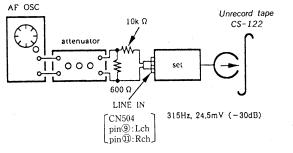
Record Bias Adjustment DECK B

Setting

REC LEVEL control: Standard Record (See page 7).

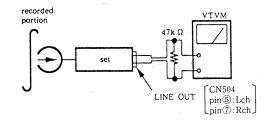
Procedure:

1. Mode: record



5-1. CIRCUIT BOARDS LOCATION

2. Mode: playback



Playback the signal recorded in step 1.

Confirm that the 10kHz playback output is 0 ± 0.5 dB relative to the 315Hz output. If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

Adjustment Location : MD-B board

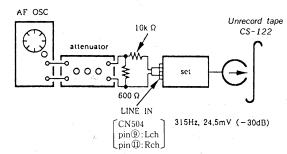
Record Level Adjustment DECK B

Setting:

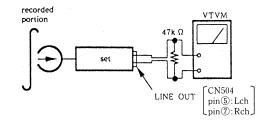
REC LEVEL control: Standard Record (See page 7).

Procedure:

1. Mode: record



2. Mode: playback



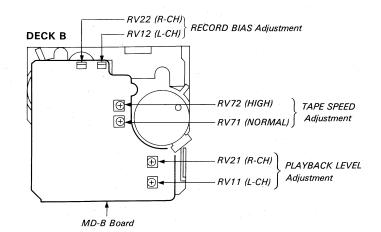
3. Playback the signal recorded in step 1.

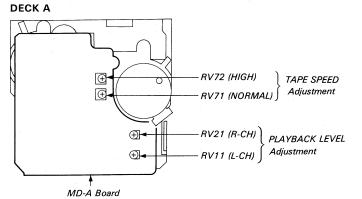
Confirm that the signal level is within the adjustment limits below. If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the step 1-2.

Adjustment Limits : $-7dB \pm 0.5dB (0.33 - 0.36V)$

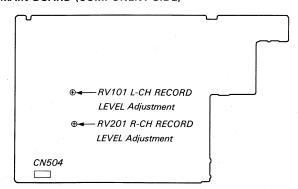
Adjustment Location: MAIN board (component side)

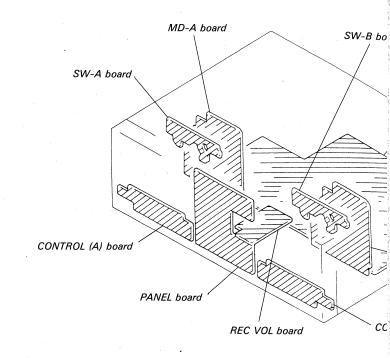
- Adjustment Parts Location Diagrams -





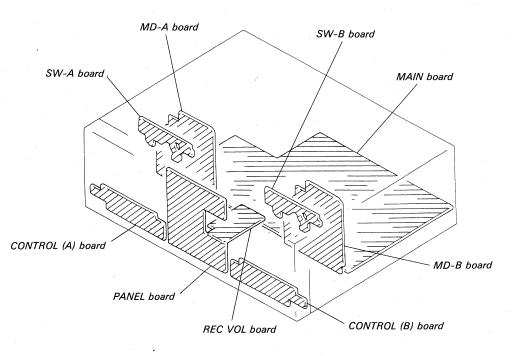
MAIN BOARD (COMPONENT SIDE)





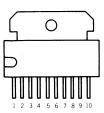
SECTION 5 DIAGRAMS

CUIT BOARDS LOCATION

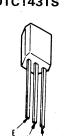


5-2. SEMICONDUCTOR LEAD LAYOUTS

TA7272P 0







NJL5165K-B



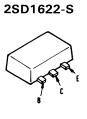


SEL2210S-C

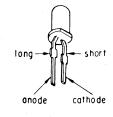


2SA1175-HFE 2SC3623A-LK DTC144ES

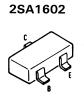


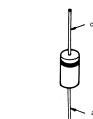


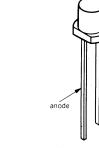
1N4148M 10E2N



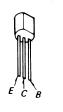
SEL2213C-C



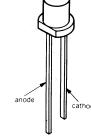




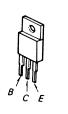
2SB1013-4



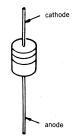




2SB1094-LK 2SD2012







5-3. PRINTED WIRING BOARDS - MAIN section -

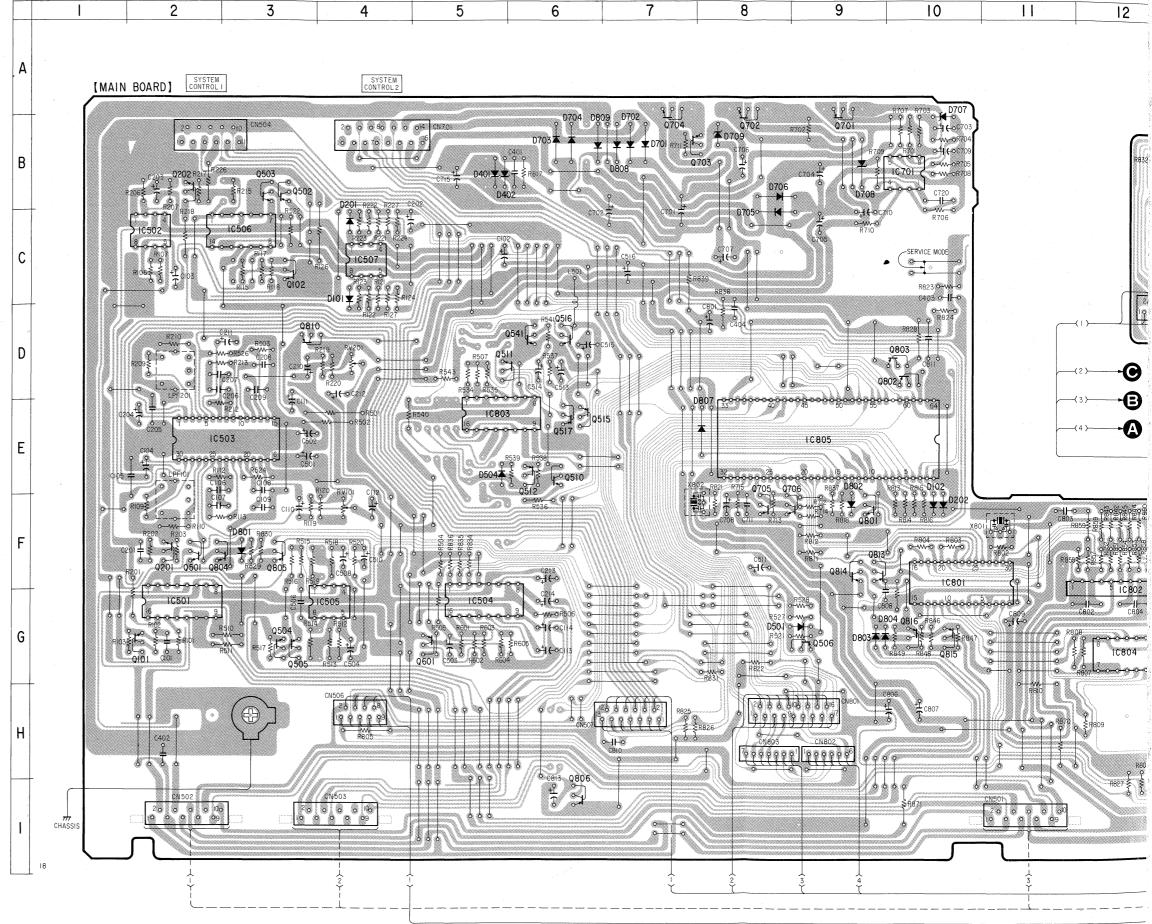
• See page 10,11 Circuit boards location and Semiconductor lead layouts.

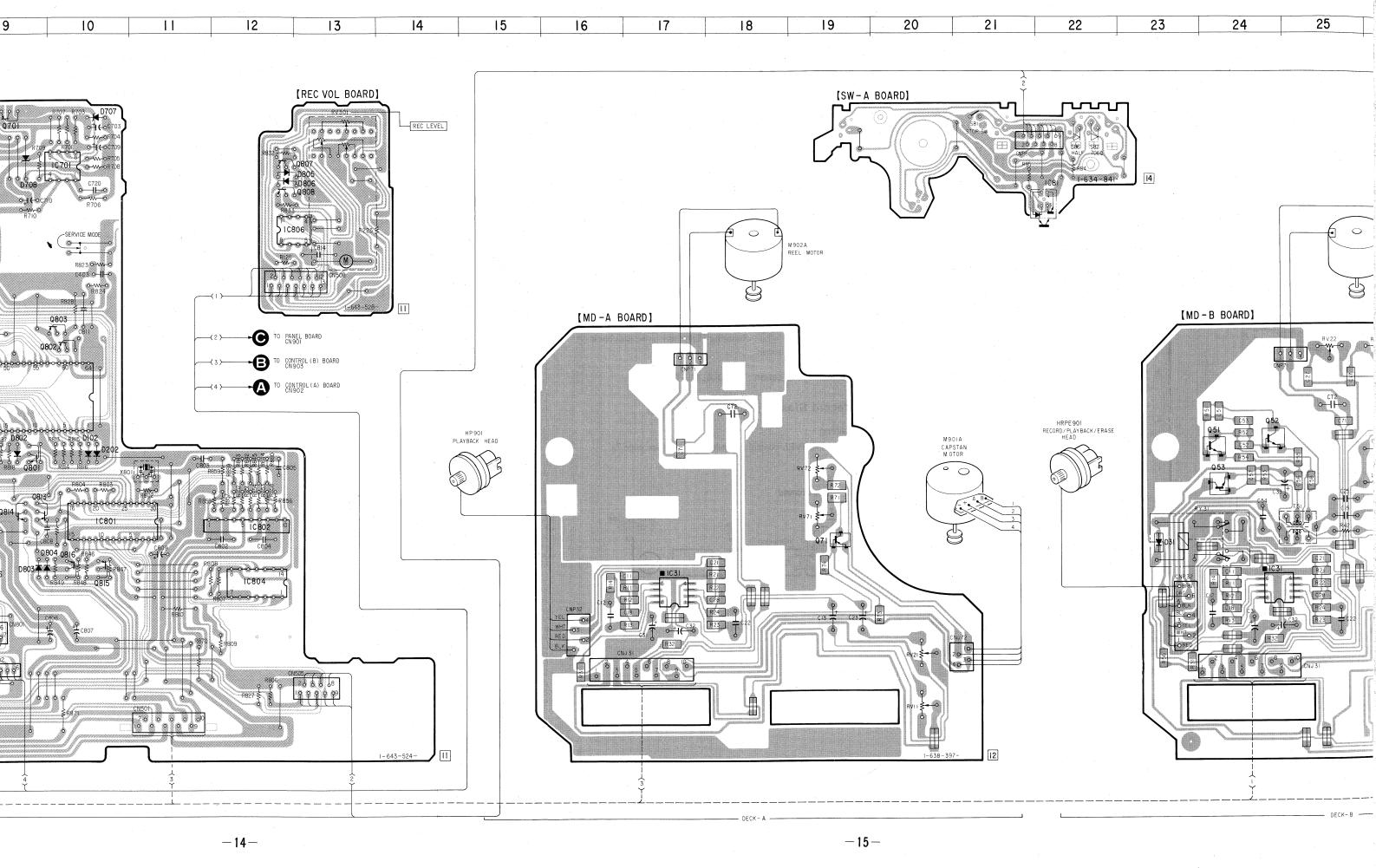
• Semiconductor Location

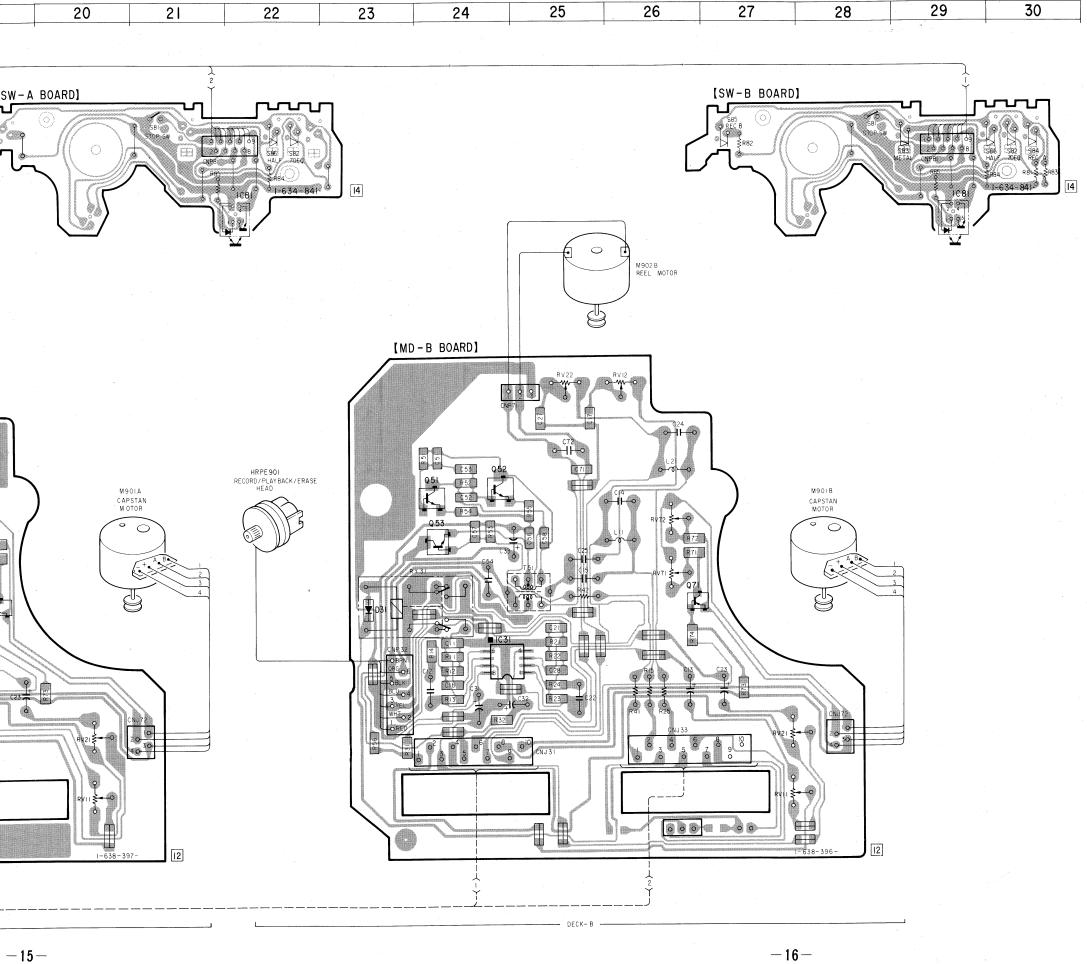
Ref. No.	Location	Ref. No.	Location	
D31	G-23 C-4	Q51 Q52	E-24 E-24	
D102	F-10	Q53	F-24	
D201	C-4	Q71(MD-A)	G-19	
D202	F-10	Q71(MD-B)	G-27	
D401	B-5	Q101	G-2	
D402	B-5	Q102	C-3	
D501	G-9	Q201	F-2	
D504	E-5	Q202	B-2	
D701	B-7	Q501	F-2	
D702	B-7	Q502	B-3	
D703	B-6	Q503	B-3	
D704	B-6	Q504	G-3	
D705	B-8	Q505	G-3	
D706	B-8	Q506	G-9	
D707	B-10	Q510	E-6	
D708	B-9	Q511	D-6	
D709	B-8	Q512	E-9	
D801	F-3	Q514	D-6	
D802	F-9	Q515	E-6	
D803	G-9	Q516	D-6	
D804	G-10	Q601	G-5	
D805	B-12	Q701	A-9	
D806	B-12	Q702	A-8	
D807	E-8	Q703	B-8	
D808	B-7	Q704	A-7	
D809	B-6	Q705 Q706	F-8 F-9	
IC31(MD-A)	G-17	Q801	F-9	
IC31(MD-B)	G-24	Q802	D-10	
IC81(SW-A)	C-22	Q803	D-10	
IC81(SW-B)	C-29	Q804	F-3	
IC501	G-2	Q805	F-3	
IC502	C-2	Q806	I -6	
IC503	E -3	Q807	B-12	
IC504	G-5	Q808	B-12	
IC505	G-4	Q810	D-3	
IC506	C-3	Q813	F-9	
IC507	C-4	Q814	F-9	
IC701	B-10	Q815	G-10	
IC801	F-10	Q816	G-10	
IC802	F-12			
IC803	E-5			
IC804	G-12		- 1	
IC805	E-9			
IC806	B-12			

tion	Α	•	[MAIN BOARD]	SYSTEM CONTROL I
2 4 2 4		_	(WAIN BOARD)	
24 19 27 2 3	В		2 C 203 Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	202 F2 H2
2 2 3 3 8	С		10502 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cios
	D		RZIII O-WI RZOSA RZOSA LEP	
	Ε		2204 #	1C50
0	F		201 - 0201	0501 Q804
2	G	-	101 6 00 101 101 101 101 101 101 101 101 101	8 0 0 9 8 8 8510 0 W RSN
0	Н	_	C402	0
		CHASSIS	200	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

— : parts extracted from the component side.







Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\,W$ or less unless otherwise specified.
- $\triangle \quad : internal \ component.$
- : nonflammable resistor.
- : B+ Line

- Voltage is dc with re under no-signal (detur no mark: REC
- Voltages are taken wit Voltage variations ma tion tolerances.
- Signal path.

> : PB (DECK A)

PB (DECK B)
: REC (DECK B- Line 5-4. SCHEMATIC DIAGRAMS - MAIN section -: adjustment for repair. 2 5 6 12 13 [MD-A BOARD] [MAIN BOARD] IC501 IC502 IC5 Q101, 201, 501 A/B DECK SELECT EQ SWITCH PASS AMP MS01A CAPSTAN MOTOR HIGH SPEED Q71 H/L DRIVE M902A REEL MOTOR C72 IC31 PB EQ AMP R24 5.6k REC DUT R 04 3 151B 1k 2 IC50 NJ72 [MD-B BOARD] M9018 CAPSTAN MOTOR R514 100k NORMAL SPEED HIGH SPEED 100k 0505 IC505 M9028 REEL MOTOR Q502, 503 PASS SWITCH IC31 R42 10 IC803 IC802 BIAS/TYP SWITCH R-CH ← REEL MOTOR B deck Q816 CAPSTAN (B) CONTROL Q815 CAPSTAN (A) CONTROL C214 L21 758P 27mH 530V 00 24m 4 20 758P 530V 00 530V CB02 330p CB04 F100 0.1 F100 0.1 F1k Q813, 814 DUB H/L SWITCH A deck XB01 REC 2.2 T \$...
BIAS R54 R55 Q51, 52
B.6 5.6 BIAS OSC [SW-A BOARD] IC801 MECHANISM CONTROL [REC VOL BOARD] WW 27k 882 70EQ ▼ REC LEVEL REC IN F Q807, B0B SWITCHING RB4 1K O REC IN L RV301 20k/20k/20k IC 81 VOL OUT L VOL OUT R VOL DOWN SYS
VOL DATA SYS
VOL UP SYS
+5V [SW-B BOARD] O GND (SYS) DB05 1N414BM 882 70EQ V 884 REC-B V 885 REC-B V 885 2803399

RB1 560 W R82 300 R83 W 1,3K

IC81

00116 00128 00128

IC806 L81639

1C806

MOTOR DRIVE

1

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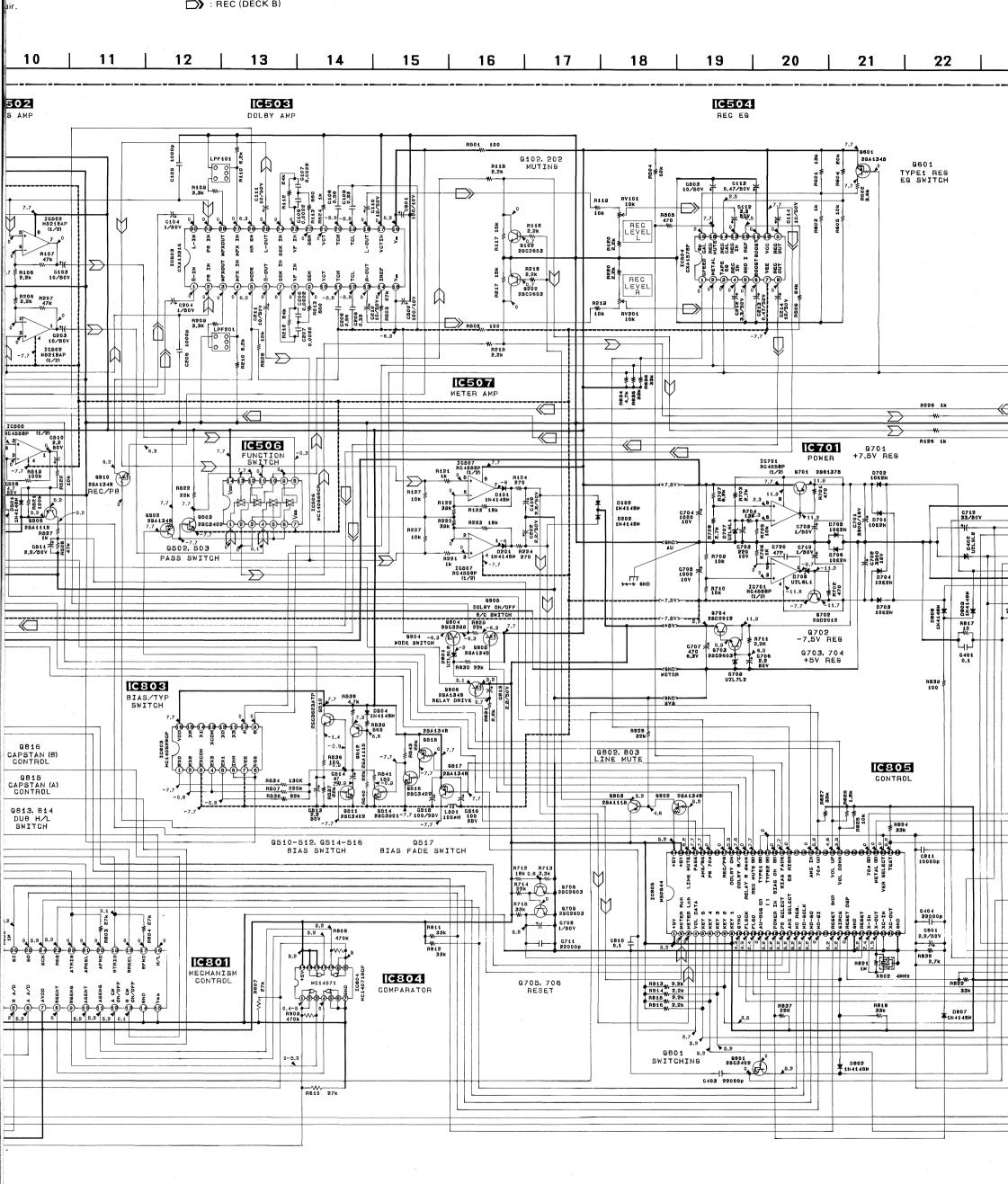
P

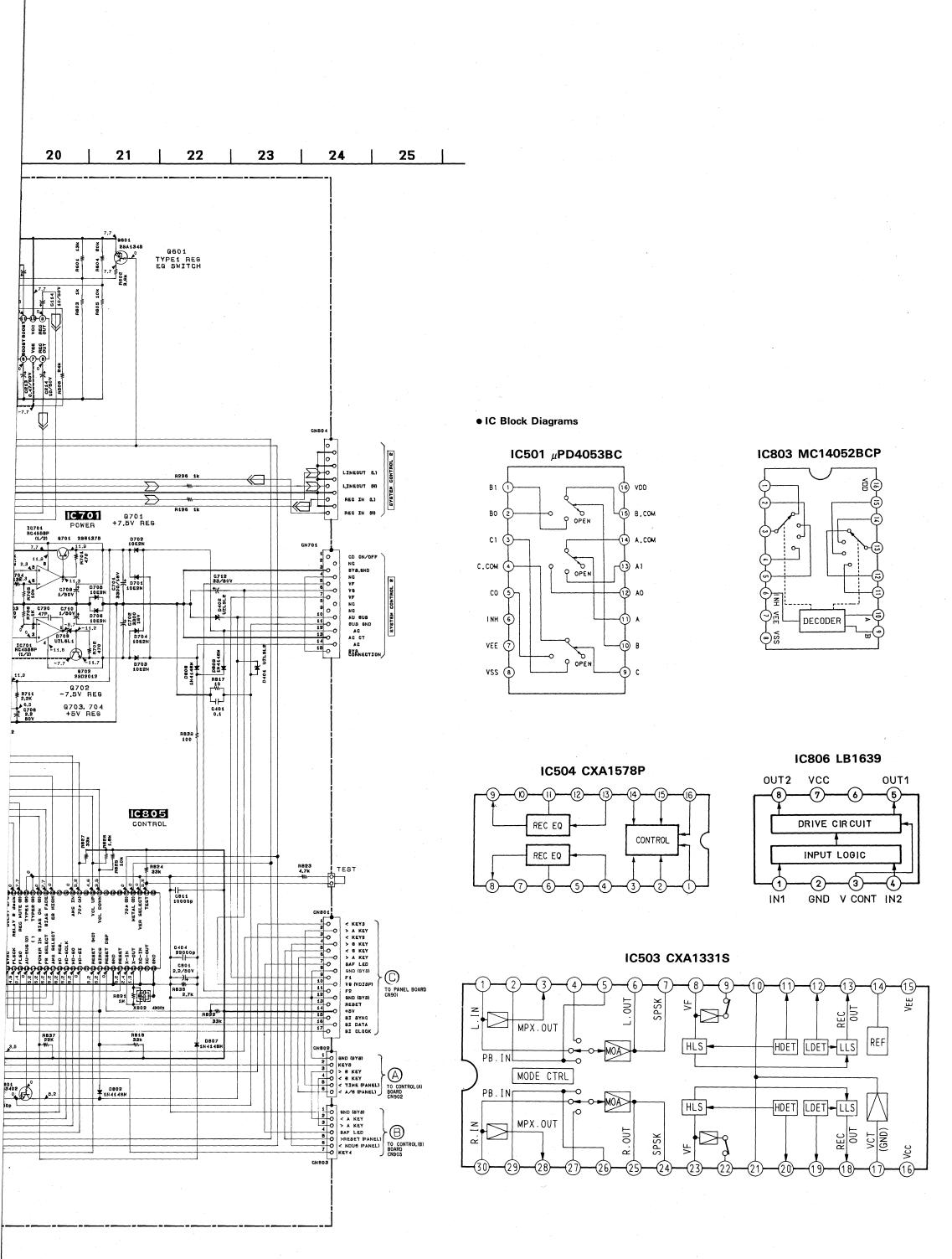
less otherwise noted. pF: $\mu\mu$ F icated except for electrolytics

1/4 W or less unless otherwise

- Voltage is dc with respect to ground under no-signal (detuned) conditions, no mark: REC
- Voltages are taken with a VOM (Input Impedance $10M\,\Omega$). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- ∑ : PB (DECK A)

 ☐ : PB (DECK B)
- : PB (DECK B)
 : REC (DECK B)





CONTR

DOLBY NR

CONTRO

S918 S91

S926 S925 REC (AMS)

S904 S90

D905 SEL2213C SAF

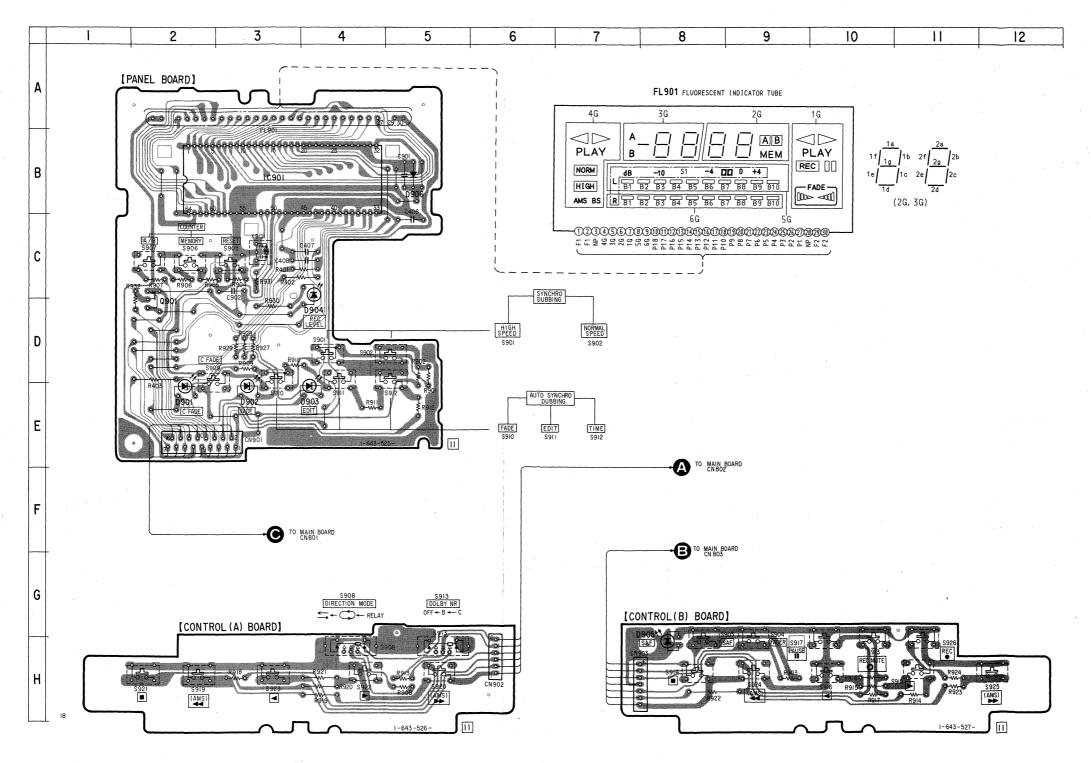
• See page 10,11 Circuit boards location and Semiconductor lead layouts.

Note:

• o---: parts extracted from the component side.

Semiconductor Location

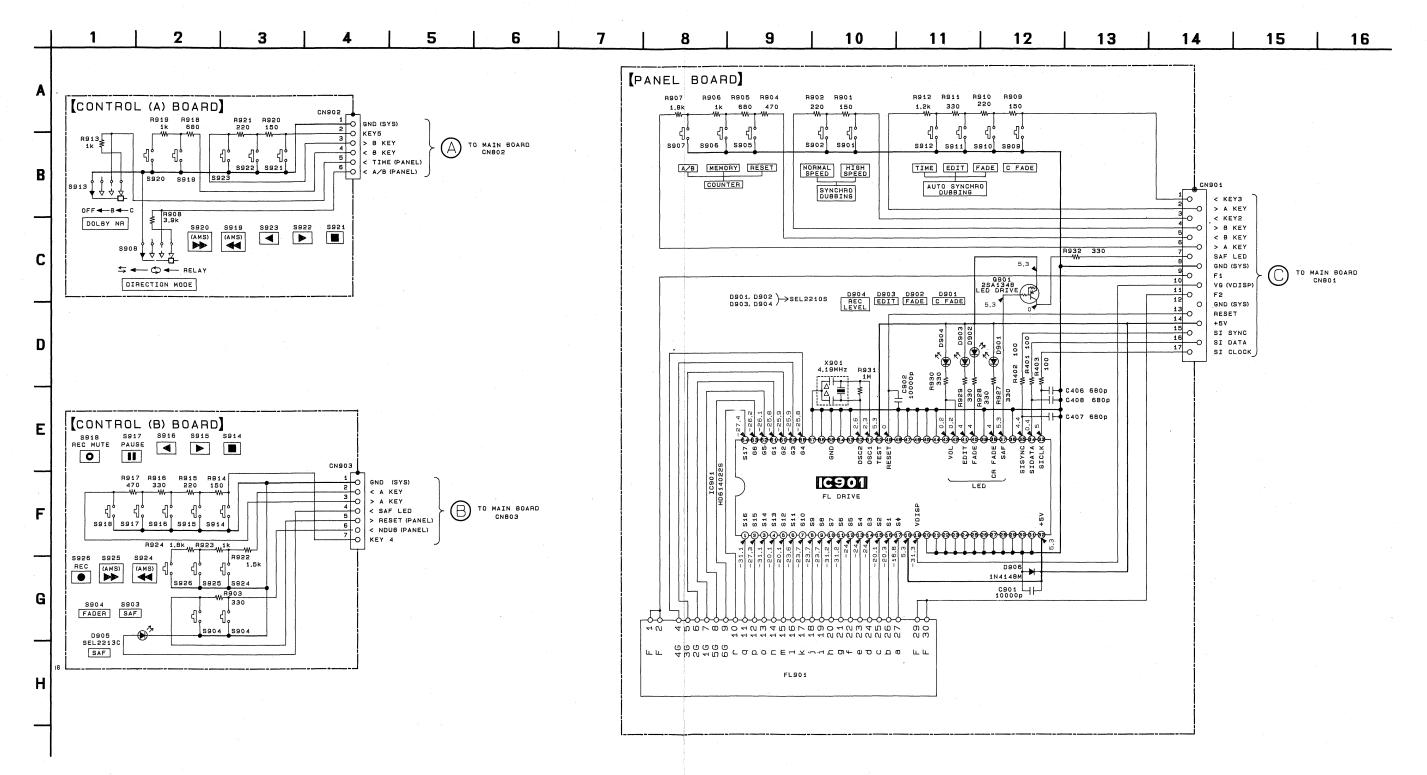
Ref. No.	Location	
D901	E-2	-
D902	E-3	
D903	E-4	
D904	D-4	
D905	H-8	
D906	B-5	
IC901	B-3	
Q501	D-2	4, 1



- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^{1}\!/_{4}\,W$ or less unless otherwise specified.
- △ : internal component.

Note:

- B+ LineVoltage is dc with respect to
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
 no mark: REC
- Voltages are taken with a VOM (Input Impedance $10M\,\Omega$). Voltage variations may be noted due to normal production tolerances.



SECTION 6 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example:

KNOB, BALANCE(WHITE)...(RED)

Parts color Cabinet's color

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- hardware (#mark) list is given in the last of this parts list.

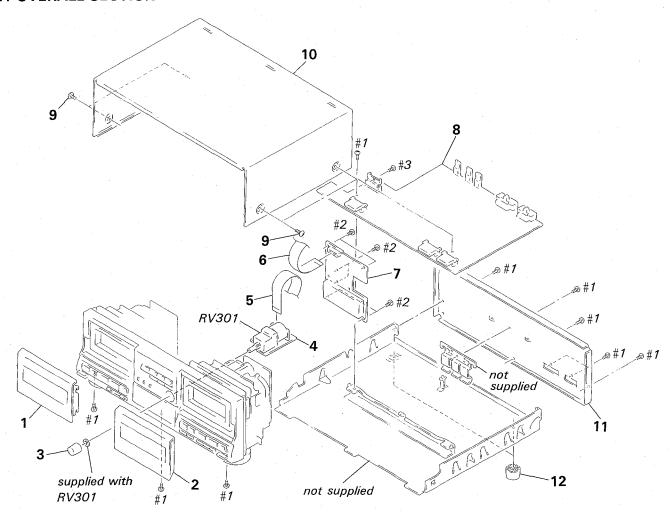
G:Germany

EA:Saudi Arabia

IT: Italian

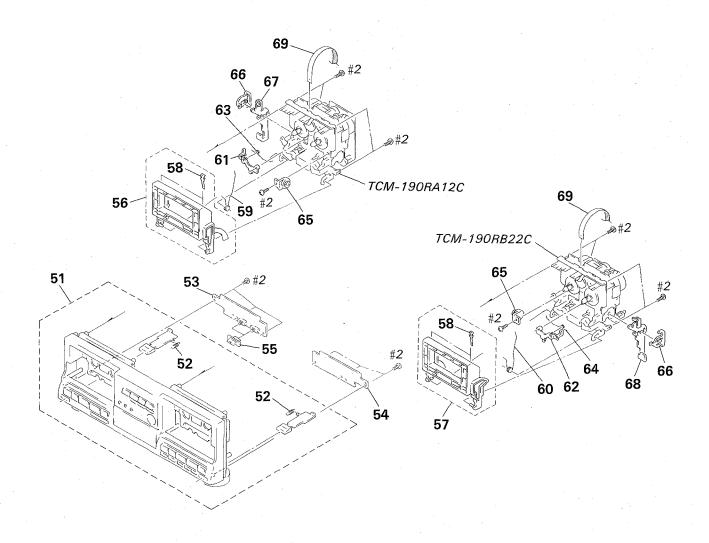
AUS: Australian

6-1. OVERALL SECTION



Ref. No.	Part No.	Description Remark	Ref. No.	Part No. Description Re	emark
1	X-3364-710-1	LID (A) ASSY, CASSETTE	6	1-690-907-11 WIRE (FLAT TYPE) (17 CORE)	
·		(AEP, G, UK, E, EA, AUS)	* 7	A-2006-747-A PANEL BOARD, COMPLETE	
1	X-3364-711-1	LID (A) ASSY, CASSETTE (IT)	* 8	A-2006-746-A MAIN BOARD, COMPLETE	
ż		LID (B) ASSY, CASSETTE	9	3-363-099-01 SCREW (CASE +3X8 TP2)	
-		(AEP, G, UK, E, EA, AUS)	* 10	4-939-803-31 CASE (AEP, G, UK, E, EA, AUS)	
2	X-3364-718-1	LID (B) ASSY, CASSETTE (IT)			-
3		KNOB (DIA. 16), ROUND (IT)	* 10	4-939-803-71 CASE (IT)	
3	4-950-651-31	KNOB (DIA. 16), ROUND	* 11	3-377-136-31 PANEL, BACK (AEP, IT, UK, E, EA, AUS)	
. •		(AEP, G, UK, E, EA, AUS)	* 11	3-377-136-41 PANEL, BACK (G)	
* 4	1-643-528-11	REC VOL BOARD	12	4-931-169-01 FOOT	
* 5	1-574-726-11	WIRE, FLAT TYPE (13 CORE)	RV301	1-241-891-11 RES, VAR, CARBON 20KX3 (REC LEVEL	L)

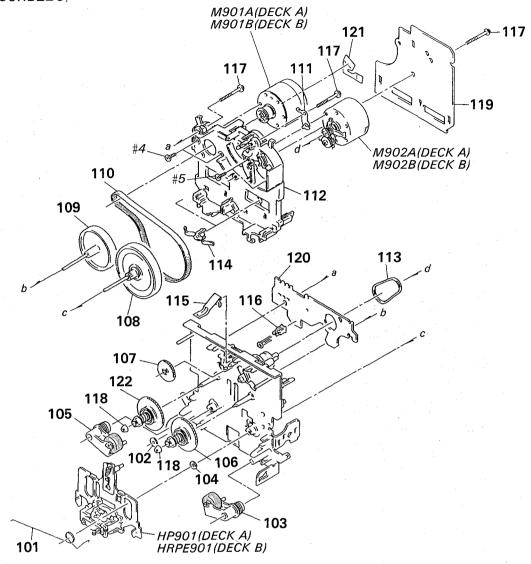
6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
5.1	X-3364-708-1	PANEL ASSY, FRONT (AEP, G,	UK, E. EA. AUS)	60	3-354-960-01	SPRING (LOADING R), TORSION	
51	X-3364-709-1	PANEL ASSY, FRONT (IT)	j.	61	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
52	3-662-752-21	SPRING, TENSION		62	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
* 53	1-643-526-11	CONTROL (A) BOARD		63	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
* 54	1-643-527-11	CONTROL (B) BOARD		64	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
55	3-377-120-01	KNOB (SLIDE) (AEP. G. UK. E.	FA AUS)	65	3-354-963-01	DAMPER	
55		KNOB (SLIDE) (IT)	EX, NOO,	66		JOINT (LOCK LEVER)	
56	X-3340-194-1	HOLDER (L) ASSY, CASSETTE	·)	* 67	3-363-638-01	LEVER (LOCK LEVER L)	
57	X-3340-195-1	HOLDER (R) ASSY, CASSETTE	:	* 68	3-363-639-01	LEVER (LOCK LEVER R)	
58	3-308-823-11	SPRING	·	69	1-690-906-11	WIRE (FLAT TYPE) (9 CORE)	
59	3-354-959-01	SPRING (LOADING L), TORSI	ON				

6-3. MECHANISM SECTION 1

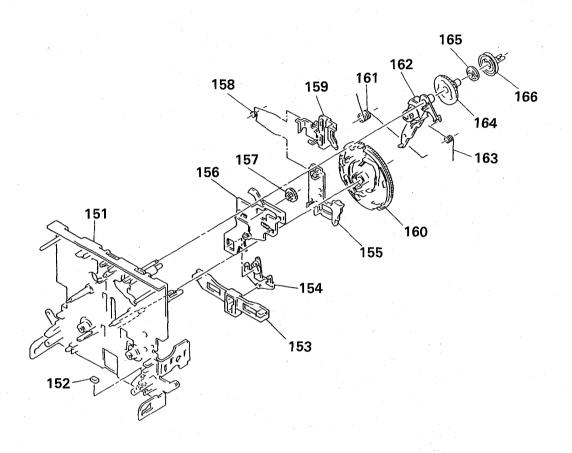
(TCM-190RA12C) TCM-190RB22C)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description		Remark
101		SPRING, TORSION		116	3-343-419-01	HOLDER (S SENSER A)		
102	3-356-714-01	WASHER		117	3-359-414-01	SCREW (+PTPWH 2X23)		
103	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY		118	3-362-308-01	CAP (REEL)		
104	3-356-713-01	WASHER		* 119	A-2006-399-A	MD-A BORAD, COMPLETE (DECK A)	
105	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY	11	* 119	A-2006-400-A	MD-B BOARD, COMPLETE (DECK B)	
106	X-3359-404-1	TABLE ASSY, REEL		* 120	1-634-841-14	SW-A BOARD (DECK A)		
107	3-359-424-01	GEAR (REV GEAR)		* 120	1-634-841-14	SW-B BOARD (DECK B)		
108	X-3359-406-1	FLYWHEEL (FWD) COMPLETE ASSY	(DECK A)	121	1-638-983-11	MOTOR FLEXIBLE BOARD		
108	X-3364-554-1	FLYWHEEL (FWD) ASSY (DECK B)		122	X-3362-078-1	TABLE ASSY (B), REEL		
109	X-3359-410-1	FLYWHEEL (REV) ASSY		HP901	A-2003-837-A	BASE ASSY, HEAD (PB) (DECK. A)	
110	3-359-417-01	BELT (FLAT), CAPSTAN		HRPE90)1A-2003-838-A	BASE ASSY, HEAD (REC/P	B/ERASE)	(DECK B)
- 111		PLATE, GROUND		M901A	X-3359-417-1	MOTOR ASSY (CAPSTAN) (DECK A)	
* 112	3-359-436-01	BASE (THRUST RETAINER), FITTIN	G	M901B	X-3359-417-1	MOTOR ASSY (CAPSTAN) (DECK B)	
113		BELT (FR), SQUARE		M902A	X-3363-501-1	MOTOR ASSY (REEL) (DEC	K A)	
114	3-575-321-00	RETAINER, THRUST, CAPSTAN		M902B	X-3363-501-1	MOTOR ASSY (REEL) (DEC	KB)	
115		SPRING (CASSETTE RETAINER), LEA	F					

6-4. MECHANISM SECTION 2

(TCM-190RA12C) TCM-190RB22C)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description Remark
151	V2262 700_1	CHASSIS ASSY. MECHANICAL	(DECK V)	159	2 250 400 01	CLIDED (DDAVE DIATE)
				1 1111		SLIDER (BRAKE PLATE)
151	X-3359-415-1	CHASSIS ASSY, MECHANICAL	(DECK B)	160	3-359-420-01	GEAR (CAM GEAR)
152	3-359-469-01	SPACER		161	3-359-456-01	SPRING (TRIGGER SPRING), TORSION
* 153	3-359-425-01	SLIDER (REVERSE SLIDER)		162	X-3359-405-1	LEVER (FR ARM) ASSY
154	3-359-426-01	LEVER (REVERSE LEVER)		163	3-359-453-01	SPRING (FR ARM), TORSION
* 155	3-359-427-01	SLIDER (LEVERSE SLIDER)		164	3-359-419-01	GEAR (FR GEAR)
* 156	3-359-415-01	SLIDER (TRIGGER SLIDER)		165	3-359-421-01	CLUTCH (REEL DISK)
157	3-359-448-01	GEAR (TRIGGER)		166	3-359-418-01	PULLEY (FR PULLEY)
158	3-359-454-01	SPRING, TORSION				

SECTION 7 ELECTRICAL PARTS LIST

CONTROL (A)

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- RESISTORS
 All resistors are in ohms
 METAL:Metal-film resistor
 METAL OXIDE:Metal Oxide-film resistor
 F:nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
 In each case, u:μ , for example:
 uA...: μA..., uPA.... μPA...,
 uPB...: μPB.... μPC...: μPC...,
 uPD...: μPD...
- CAPACITORS uF: μF
- COILS uH: μH

COHTROL (B)

MAIN

When indication parts by reference number, please include the board name.

The components identified by mark A or dotted line with mark are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifé.

	Part No.		Ref. No. Part No. Des
		CONTROL (A) BOARD	< F

			R903 1-249-411-11 CAR
		< CONNECTOR >	R914 1-249-407-11 CAR
			R915 1-249-409-11 CAR
* CN902	1-564-499-11	PIN, CONNECTOR 6P	R916 1-249-411-11 CAR
			R917 1-249-413-11 CAR
		< RESISTOR >	2000 4 040 440 44 045
		2.22.4	R922 1-249-419-11 CAR
	1-249-424-11		R923 1-249-417-11 CAR
	1-249-417-11		R924 1-249-420-11 CAF
R918	1-249-415-11	•	
		CARBON 1K 5% 1/4W	< S
R920	1-249-407-11	CARBON 150 5% 1/4W	\$903 1-554-303-21 SWI
. 0001	1-249-409-11		\$904 \ 1-554-303-21 SWI
. K921	1-249-409-11	CARDON 220 3/0 1/4#	\$914 1-554-303-21 SWI
		< SWITCH >	\$915 1-554-303-21 SWI
		3#11011 /	\$916 1-554-303-21 SWI
\$908	1_572_378_11	SWITCH, SLIDE (DIRECTION MODE)	0310 1 334 000 21 001
		SWITCH, SLIDE (DOLBY NR)	S917 1-554-303-21 SWI
		SWITCH, TACTILE (AMS REW)	\$918 1-554-303-21 SWI
		SWITCH, TACTILE (AMS FF)	\$924 1-554-303-21 SWI
		SWITCH. TACTILE (STOP)	\$925 1-554-303-21 SWI
0021			S926 1-554-303-21 SWI
\$922	1-554-303-21	SWITCH, TACTILE (FWD)	
		SWITCH, TACTILE (REW)	***************

		grander of the control of the same	* A-2006-746-A MAI
*	1-643-527-11	CONTROL (B) BOARD	***

•			* 4-942-204-01 PLA
		< CONNECTOR >	7-685-645-79 SCR
	•		
* CN903	1-564-500-11	PIN, CONNECTOR 7P	* Company of the c
		production of the state of the	The state of the s
		< DIODE > The factor of	C101 1-136-157-00 FIL
			C102 1-126-161-11 ELE
D905	8-719-302-23	DIODE SEL2213C-C	C103 1-126-059-11 ELE
			C104 1-126-301-11 ELE
			C105 1-162-294-31 CER

Ref. No.	Part No.	Description		Remark
		< RESISTOR >		
				4.4400
R903			330 5%	1/4W
	1-249-407-11		150 5%	-
	1-249-409-11		220 5%	1/4W
R916			330 5%	1/4W
R917	1-249-413-11	CARBON	470 5%	1/4W
R922	1-249-419-11	CARBON	1. 5K 5%	1/4W
R923	1-249-417-11	CARBON	1K 5%	1/4W
R92.4	1-249-420-11	CARBON	1.8K 5%	. 1/4W
	A SECTION	< SWITCH >		
		(01111011)		
\$903	1-554-303-21	SWITCH, TACTILE	(SAF)	
	1-554-303-21		(FADER)	
\$914			(STOP)	
	1-554-303-21	*	- 1	
\$916	1-554-303-21		• •	
	1 004 000 21	-	(1121)	
	1-554-303-21	SWITCH, TACTILE	(PAUSE)	
	1-554-303-21		(REC MUTE)	
	1-554-303-21		(AMS REW)	
	1-554-303-21		(AMS FF)	
S926				
	33			
*****	******	*******	******	******
ķ	A-2006-746-A	MAIN BOARD, COM	PLETE	
		*********	****	
k	4-942-204-01	PLATE, GROUND		
	· ·		3X6 TYPE2	N-S
		< CAPACITOR >		•
0101	1 100 157 00	TILM.	Λ ΛΛΟΓ	En/ En/
C101	1-136-157-00		0. 022uF	5% 50V
	1-126-161-11		2. 2uF	
C103	1-126-059-11		10uF	20% 50V
			1	
C104	1-126-301-11 1-162-294-31		1uF 0.001uF	20% 50 V 10% 50 V

MAIN

Ref. No.	Part No.	Description			Remark		Ref. No.	Part No.	Description			Remark
C106	1-130-475-00	MYLAR	0.0022uF	5%	50V		C711	1-101-005-00	CERAMIC	22000PF		50V
C107	1-130-475-00	MYLAR	0.0022 uF	5%	50 V							
C108	1-136-174-00	FILM	0.56uF	5%	50V		C712	1-126-867-11	ELECT	33uF	20%	50V
C109	1-136-171-00		0.33uF	5%	50V		C720	1-162-215-31	CERAMIC	47PF	5%	50V
C110	1-126-059-11		10uF	20%	50V		C801	1-126-161-11	ELECT	2. 2uF	20%	50V
							C802	1-162-288-31	CERAMIC	330PF	10%	50V
C111	1-126-059-11	FLECT	10'u F	20%	50V		C803	1-136-165-00		0. 1uF	5%	50V
C112	1-126-162-11		3. 3uF	20%	50V	'					•/•	
C113	1-126-300-11		0. 47uF	20%	50V		C804	1-162-288-31	CERAMIC	330PF	10%	50V
C114	1-126-059-11		10uF	20%	50V		C805	1-136-165-00		0. 1uF	5%	50V
C201	1-136-157-00		0. 022uF	5%	50V		C806	1-126-059-11		10 uF	20%	50V
0201	1 100 101 00	, i Em	0. 02201	070	001		C807	1-126-059-11		10 u F	20%	50 V
C202	1-126-161-11	FLECT	2. 2uF	20%	50V	-	C808	1-101-005-00		22000PF	2070	50 V
C202	1-126-059-11		10uF	20%	50 V		0000	1 101 000 00	CENTANTO	2200011		004
C203	1-126-301-11		1vGi	20%	50 V		C809	1-124-994-11	FLECT	100uF	20%	107
			0. 001uF	10%	50V		C810	1-136-165-00		0. 1uF	5%	50V
C205	1-162-294-31											
C206	1-130-475-00	MYLAK	0. 0022 uF	5%	50 V		C811	1-161-379-00		0.01uF	20%	25V
							C813	1-126-161-11	ELECT	2. 2uF	20%	50V
C207	1-130-475-00		0.0022uF		50V							
C208	1-136-174-00		0. 56uF	5%	50 V				< CONNECTOR >			
C209	1-136-171-00		0.33uF	5%	50V							
C210	1-126-059-11	ELECT	10 u F	20%	50V				CONNECTOR, BOAF			
C211	1-126-059-11	ELECT	10uF	20%	50 V		★ CN502	1-580-784-11	CONNECTOR, BOAF	RD TO BOARD		
							* CN503	1-580-784-11	CONNECTOR, BOAF	RD TO BOARD		
C212	1-126-162-11	ELECT	3.3uF	20%	50V		* CN504	1-566-858-11	SOCKET, CONNECT	FOR 11P		
C213	1-126-300-11	ELECT	0.47uF	20%	50 V	-	* CN505	1-568-828-11	SOCKET, CONNECT	FOR 9P		
C214	1-126-059-11	ELECT	10 u F	20%	50V							
C401	1-164-159-11	CERAMIC	0.1uF		50V		* CN506	1-568-828-11	SOCKET, CONNECT	FOR 9P		
C402	1-101-005-00	CERAMIC	22000PF		50V		* CN507	1-568-832-11	SOCKET, CONNECT	FOR 13P		
							* CN701	1-566-859-11	SOCKET, CONNECT	TOR 15P		
C403	1-101-005-00	CERAMIC	22000PF		50V		* CN801	1-568-836-11	SOCKET, CONNECT	FOR 17P		
C404	1-101-005-00	CERAMIC	22000PF		50V		* CN802	1-564-340-00	PIN, CONNECTOR	6 P		
C501	1-124-994-11	ELECT	100uF	20%	10V							
C502	1-124-994-11		100uF	20%	10V		* CN803	1-564-341-11	PIN, CONNECTOR	7 P		
C503	1-126-059-11		10uF	20%	50V							
****									< DIODE >			
C504	1-126-161-11	FLECT	2. 2uF	20%	50V	-						
C508	1-126-163-11		4. 7uF	20%	50V		D101	8-719-987-63	DIODE 1N4148N	A		
C510	1-126-161-11		2. 2uF	20%	50V		D102	8-719-987-63				
C511	1-126-161-11		2. 2uF	20%	50V		D201	8-719-987-63				
C513	1-126-161-11		2. 2uF	20%	50 V		D202	8-719-987-63				
6313	1-120-101-11	LLLOI	2. 201	2070			D401	8-719-933-54				
0514	1-124-910-11	FLECT	47uF	20%	50V		J T V I	5 115 500 54	DIODE HEODRE			
C514 C515	1-124-910-11		470r 100uF	20%	25V		D402	8-719-933-54	DIODE HZS9A21			
							D501					
C516	1-124-478-11		100uF	20%	25V			8-719-987-63				
C506	1-161-494-00		0. 022uF	0.00/	25V		D504	8-719-987-63		A		
C701	1-124-887-00	ELECI	3300uF	20%	16V		D701	8-719-200-77				
		EL EAT	0000	0.007	104		D702	8-719-200-77	DIODE 10E2N			
C702	1-124-887-00		3300uF	20%	16V							
C703	1-126-101-11			2 0%	16V	1	D703	8-719-200-77				
C704	1-124-473-11		1000uF	20%	10V		D704	8-719-200-77				
C705	1-124-473-11		1000uF	20%	10 V		D705	8-719-200-77				
C706	1-126-161-11	ELECT	2. 2uF	20%	50V		D706	8-719-200-77				
						1	D707	8-719-933-33	DIODE HZS6A11	-		
C707	1-124-472-11	ELECT	470uF	20%	10V							
C708	1-126-301-11	ELECT	1uF	20%	50V		D708	8-719-933-33	DIODE HZS6A11	-		
C709	1-126-301-11	ELECT	1uF	20%	50V		D709	8-719-000-78	DIODE UZL-7L2	?		
C710	1-126-301-11	ELECT	1uF	20%	50V	-	D801	8-719-933-54	DIODE HZS9A21			

MAIN

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
D802	8-719-987-63	DIODE 1N4148M			Q701	8-729-141-83	TDANGISTOD	2SB1094-LK	 .
D802	8-719-987-63				0702	8-729-209-15		2SD2012	
DOOO	0 113 301 00				4102	0 123 203 10	INAMOTOTOR	2302012	
D804	8-719-987-63	DIODE 1N4148M ·			0703	8-729-620-05	TRANSISTOR	2SC2603-EF	
D807	8-719-987-63				0704	8-729-209-15		2SD2012	
D808	8-719-987-63				0705	8-729-620-05		2SC2603-EF	
D809	8-719-987-63				Q706	8-729-620-05		2SC2603-EF	
0003	0 713 301 00	DIODE INTITOM			0801	8-729-900-80		DTC114ES	
		< C >			4001	0 125 500 00	TRANSTOTOR	DIVITATO	
					Q802	8-729-900-61	TRANSISTOR	DTA114ES	
LC501	8-759-140-53	IC UPD4053BC			0803	8-729-119-76		2SA1175-HFE	
	8-759-634-51				0804	8-729-900-89		DTC144ES	
	8-752-059-55				0805	8-729-900-65		DTA144ES	
	8-752-055-61				0806	8-729-900-61	TRANSISTOR	DTA114ES	
10505	8-759-945-58	IC RC4558P							
					0.810	8-729-900-61	TRANSISTOR	DTA114ES	
IC506	8-759-000-49	IC MC14066BCP			Q813	8-729-900-61	TRANSISTOR	DTA114ES	
IC507	8-759-945-58	IC RC4558P			0814	8-729-900-89	TRANSISTOR	DTC144ES	
IC701	8-759-945-58	IC RC4558P			0815	8-729-801-84	TRANSISTOR	2SB1013-4	
IC801	8-759-635-94	IC M50925SP-482S)		Q816	8-729-801-84	TRANSISTOR	2 SB 1013-4	
IC802	8-759-207-05	IC TA7272P							
				•			< RESISTOR	>	
IC803	8-759-000-48	IC MC14052BCP							
10804	8-759-240-71	IC TC4071BP			R101	1-249-421-11	CARBON	2.2K 5%	1/4W
10805	8-759-067-45	IC M50944-180SP			R102	1-249-423-11	CARBON	3.3K 5%	1/4W
					R103	1-247-887-00	CARBON	220K 5%	1/4W
		< COIL >			R106	1-249-421-11	CARBON	2.2K 5%	1/4W
					R107	1-249-437-11	CARBON	47K 5%	1/4W
L 501	1-408-080-00	INDUCTOR 10) u H						
		·		•	R109	1-249-423-11		3.3K 5%	1/4W
		< LOW PASS FILTER:	>		. R110	1-249-428-11		8. 2 K 5%	1/4W
					R112	1-247-864-11		24K 5%	1/4W
		FILTER, LOW PASS			R113	1-249-414-11		560 5%	1/4W
LPF201	1-236-087-11	FILTER, LOW PASS			R115	1-249-421-11	CARBON	2. 2K 5%	1/4W ·
		< TRANSISTOR >			R117	1-249-431-11	CADDON	15K 5%	1/4W
		C INANSTOTOR >			l .	1-249-431-11		15K 5% 2.2K 5%	1/4W
0101	0_720_000_74	TRANSISTOR DTC14	210			1-249-429-11		10K 5%	1/4W
0102	8-729-620-05				R120	1-249-421-11		2. 2K 5%	1/4W
		TRANSISTOR DTC14			R121			1K 5%	•
0202	8-729-620-05				11121	1 243 417 11	OANDON	TK - 370	17.411
Q501	8-729-900-61				R122	1-249-436-11	CARRON	39K 5%	1/4W
4001	3 120 000 01				R123	1-249-432-11		18K 5%	1/4W
0502	8-729-900-61	TRANSISTOR DTA11	1FS		R124	1-249-410-11		270 5%	1/4W
0503	8-729-900-80				R126	1-249-417-11		1K 5%	1/4W
0504	8-729-900-80				R127	1-249-429-11		10K 5%	1/4W
0505	8-729-900-61								
Q506	8-729-119-76				R201	1-249-421-11	CARBON	2.2K 5%	1/4W
					R202	1-249-423-11		3.3K 5%	1/4W
Q510	8-729-141-30	TRANSISTOR 2SC362	3A-LK		R203	1-247-887-00		220K 5%	1/4W
0511	8-729-900-80				R206	1-249-421-11		2.2K 5%	1/4W
0512	8-729-119-76		75-HFE		R207	1-249-437-11	CARBON	47K 5%	1/4W.
Q514	8-729-900-74								
Q515	8-729-900-61				R209	1-249-423-11	CARBON	3.3K 5%	1/4W
	•				R210	1-249-428-11	CARBON	8. 2K 5%	1/4W
Q516	8-729-900-80	TRANSISTOR DTC114	IES		R212	1-247-864-11	CARBON	24K 5%	1/4W
0517	8-729-900-61	TRANSISTOR DTA114	IES		R213	1-249-414-11	CARBON	560 5%	1/4W
0601	8-729-900-65	TRANSISTOR DTA14	IES	<i>3</i>	R215	1-249-421-11	CARBON	2.2K 5%	1/4W
				•					

MAIN

Ref. No.	Part No.	Description				Remark			Description			Remark
R217	1-249-431-11	CARBON		15K	5%	1/4W	R702	 1-249-413-11	CARBON	470	5%	1/4W
R218	1-249-421-11			2. 2K		1/4W						
R219	1-249-429-11			10K	5%	1/4W	R703	1-249-422-11	CARBON	2.7K	5%	1/4W
	1-249-421-11			2. 2K		1/4W	R704			13K	5%	1/4W
R220				1K	5%	1/4W	R705			10K	5%	1/4W
R 2 2 1	1-249-417-11	CARBON			J/0	1/ 411	R706			1 K	5%	1/4W
				0.014	50 /	4 / 4111				6. 2K		1/4W
R222	1-249-436-11			39K	5%	1/4W	R707	1-241-000-11	CANDON	0. ZK	070	17 411
R223	1-249-432-11			18K	5%	1/4W			0.400.011	0.74	F0/	* / AU
R224	1-249-410-11	CARBON		270	5%	1/4W	R708			2. 7K		1/4W
R226	1-249-417-11	CARBON		1 K	5%	1/4W	R709	1-249-429-11	CARBON	10K	5%	1/4W
R227	1-249-429-11	CARBON		10K	5%	1/4W	R710			10K	5%	1/4W
11.2.							R711	1-249-421-11	CARBON	2. 2K	5%	1/4W
R501	1-249-405-11	CARBON		100	5%	1/4W	R712	1-249-432-11	CARBON	18K	5%	1/4W
R502	1-249-405-11			100	5%	1/4W						
	1-249-434-11			27K	5%	1/4W	R713	1-249-423-11	CARBON	3.3K	5%	1/4W
R503							R714			22K	5%	1/4W
R504	1-249-429-11			10K	5%	1/4W	R715			33K	5%	1/4W
R505	1-249-413-11	CARBON		470	5%	1/4W				10K	5%	1/4W
			•		F	4 / ***	R801				5%	1/4W
R506	1-247-864-11	CARBON		24K	5%	1/4W	R802	1-247-903-00	CAKBON	1M .	J%	1/ 411
R507	1-247-887-00	CARBON		220K	5%	1/4W						
R510	1-249-429-11	CARBON		10 K	5%	1/4W	R803	1-249-434-1	CARBON	27K	5%	1/4W
R511	1-249-429-11	CARBON		10K	5%	1/4W	R804	1-249-434-1	CARBON	27K	5%	1/4W
R512	1-247-887-00			220K	5%	1/4W	R80	1-249-435-1	CARBON	33K	5%	1/4W
N J 1 Z	1 247 007 00	, ombon					R806	1-249-435-1	CARBON	33K	5%	1/4W
	1 040 400 11	CADDON		10K	5%	1/4W	R80			27K	5%	1/4W
R513	1-249-429-11					1/4W		, 2.0				
R514	1-249-441-1			100K			R80	3 1-247-895-0	CARRON	470K	5%	1/4W
R515	1-249-428-1			8. 2K		1/4W				470K		1/4W
R516	1-249-423-1	I CARBON		3. 3K	5%	1/4W	R809			27K	5%	1/4W
R517	1-249-441-1	1 CARBON		100K	5%	1/4W	R81					•
							R81			33K	5%	1/4W
R518	1-249-417-1	1 CARBON		1 K	5%	1/4W	R81:	2 1-249-435-1	1 CARBON	33K	5%	1/4W
R519	1-249-441-1			100K	5%	1/4W						
R520	1-249-429-1			10K	5%	1/4W	R81	3 1-249-421-1	1 CARBON	2.2K	5%	1/4W
R521	1-249-441-1			100K	5%	1/4W	R81	4 1-249-421-1	1 CARBON	2. 2 K	5%	1/4W
	1-249-433-1			22K	5%	1/4W	R81		1 CARBON	2. 2K	5%	1/4W
R522	1-249-455-1	I OMNOON		LLIN	0,0	.,	R81			2. 2K	5%	1/4W
		4 040001		1 V	E0/	1/4W	R81			10	5%	1/4W
R524	1-249-417-1			1 K	5%		101	1 240 000 1	1 0/1110011			
R526	1-249-429-1			1.0 K	5%	1/4W	D0.1	8 1-249-435-1	1 CADDON	33K	5%	1/4W
R527	1-249-417-1			1 K	5%	1/4W	R81					-
R528	1-249-437-1	1 CARBON		47 K				1 1-247-903-0		1M		1/4W,
R534	1-247-882-1	1 CARBON		130K	5%	1/4W	R82			33K	5%	1/4W
							R82			4. 7 K		1/4W
R535	1-249-440-1	1 CARBON		82K	5%	1/4W	R82	4 1-249-435-1	1 CARBON	33K	5%	1/4W
R536	1-249-405-1			100	5%	1/4W						
R537	1-249-433-1			22K	5%	1/4W	R82	5 1-249-429-1	1 CARBON	10K	5%	1/4W
R538	1-249-425-1			4.7K		1/4W	R82		1 CARBON	1.8K	5%	1/4W
	1-249-425-1			560	5%	1/4W	R82	•		33K	5%	1/4W
R539	1-249-414-1	I OVUDOU.		000	070	17 311	R82			22K	5%	1/4W
		4 040001		000	E0/	1.7.49	R82	·		22K	5%	1/4W
R540	1-249-433-1			22K	5%		1 182	J 1-243-400-1	1 VANDVII	441	U/0	17 an
R541	1-249-407-1			150	5%	1/4W		A 4 040 400 4	1 (ADD()	 	E0/	1 / 4144
R543	1-249-433-1	1 CARBON		22K	5%	1/4W	R83			22K	: 5%	1/4W
R601	1-247-858-1	1 CARBON		-13K	5%	1/4W	R83	•		2. 2K		1/4W
R602				3.6K	5%	1/4W	R83			4. 7K		1/4W
11002	. =						R83	5 1-249-435-1	1 CARBON	33K	5%	1/4W
DEUS	1-249-417-1	1 CARRON		1 K	5%	1/4W	R83	6 1-249-435-1	1 CARBON	33K	5%	1/4W
R603				20K	5%	1/4W	.					
R604					5%	1/4W	R83	7 1-249-433-1	1 CARRON	22K	5%	1/4W
R605				10K							5%	
R701	1-249-413-1	1 CARBON		470	5%	1/4W	R83	0 1-243-422-	i ourranii.	- 2. 18	. 0/8	17 711

MAIN MD-A MD-B

Ref. No.	Part No.	Description		-	Remark	Ref. No.	Part No.	Description	•	· R	Remark
D830	1-249-405-11	CARBON	100 5%	1/4W			*.	<pre>< CONNECTOR ></pre>		- -	:
		CARBON		•				COUNTEDION >			
R843	1-247-862-11		20K 5%			* CNJ72	1-580-411-11	SOCKET. CONNECTOR	4P		
11040	1 244 002 11		2011	., .,				PIN. CONNECTOR (PC		4P	
R844	1-247-862-11	CARBON	20K 5%	1/4W	9.4			PIN, CONNECTOR (SM			
R845	1-249-425-11			•							
R846	1-249-415-11		680 5%	1/4W			***	< 10 >			
R847	1-249-429-11		10K 5%	1/4W							
R848	1-249-415-11	CARBON	680 5%	1/4W		JC31	8-759-106-02	IC uPC4570G2			
R849	1-249-429-11	CARBON	10K 5%					< JUMPER >		r	
R851	1-249-437-11	CARBON	47K 5%	1/4W							e *
R852	1-247-866-11	CARBON	30K 5%	1/4W		JW1	1-216-295-00	METAL CHIP 0	5%	1/10\	1
R853	1-247-866-11	CARBON	30K 5%	1/4W		JW51	1-216-296-00	•		1/8W	
R854	1-249-437-11	CARBON	47K 5%	1/4W		JW52	1-216-296-00	METAL CHIP 0	5%	1/8W	
							1-216-296-00		5%	1/8W	
R855	1-247-872-11	CARBON	51K 5%	1/4W		JW54	1-216-296-00		5%	1/8W	
R856	1-247-872-11		51K 5%			4,4					
R857	1-247-872-11		51K 5%					< TRANSISTOR >			
R858		CARBON	51K 5%								
R859	1-249-405-11		100 5%	1/4W		Q71	8-729-602-36	TRANSISTOR 2SA16)2		
R860	1-249-405-11	CARRON	100 5%					< RESISTOR >			
R870	1-247-688-11			•				C HEOTOTON 2			* * *
R871	1-247-688-11					R11	1-216-099-00	METAL CHIP 12	OK 5%	1/10W	,
11011	1 247 000 17	UNIDUN	2. 2 0/0	. 17 416		R12	1-216-025-00			1/10W	
		< VARIABLE RESIS	TOR >			R13	1-216-100-00		OK 5%	1/10W	
			TON /			R14	1-216-067-00		6K 5%	1/10W	
DV101		RES, ADJ, CARBON	108			R21		METAL CHIP 12			
		RES, ADJ, CARBON			5.8	1121	1 210 033 00	MICIAE OITH	/K - 3/0 -	17 1011	t en .
	. 1-250-000-11	HEO, ADO, CANDON	1010			R22	1-216-025-00	METAL CHIP 10	1 5%	1/10W	,
		< VIBRATOR >							OK 5%	1/10W	
		V VIDINITON >				1			6K 5%	1/10W	
V201.	1_577_358_21	VIBRATOR, CERAMI	(zHMk). O			R31	1-216-033-00			1/10W	
		VIBRATOR, CERAMI				R32		METAL CHIP 22		1/10W	
		*******		*****	*****	1102	1 210 000 00	METAL VIII	, 370	17 1011	
*****	*******	***************************************	*****	******		R71	1-216-082-00	METAL GLAZE 24	5%	1/10W	ı -
*	A-2006-399-A	MD-A BOARD, COMP	I FTF			R72	1-216-081-00			1/10W	
т	A 2000 000 A	********				R73		METAL CHIP 471		1/10W	
		***************************************	****			R74			K 5%	•	
		< CAPACITOR >					. 210 000 00	THE COURT AND	. 070		
								< VARIABLE RESISTOR	₹ >		
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V						
		FILM			50V	RV11	1-238-012-11	RES, ADJ, CARBON 11	(
C13	1-124-234-00		22uF	20%	16V			RES, ADJ, CARBON 11			14
		CERAMIC CHIP			50V			RES, ADJ, CARBON 1			
	1-163-131-00		390PF	5%	50V			RES. ADJ. CARBON 10			i a
						******	*****	*******	*****		
C22			0.022uF	5%	50V	ì	1 0000 400 1	HD D DOADD AGUILE			. 4 1
C23	1-124-234-00		22uF	20%	16V	*		MD-B BOARD, COMPLE			
C28			100PF	5%	50V	į.		*******			
C31	1-124-234-00		22uF	20%	16V		1.	Allers to the second			
C32	1-124-234-00		22uF		16V	4.4.		< CAPACITOR >			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C72		ELECT, NONPOLAR	1uF	20%	50V	C11 - :		CERAMIC CHIP 390			50V
		A Page 1	3 2	3			1-136-157-00)22uF	5%	50V
			* * * * * * * * * * * * * * * * * * *			C13	1-124-234-00	ELECT 22	ıF	20%	16V
								FILM : 3 75			630V

MD-B

Ref. No.	Part No.	Description			Remark		Ref. No.	Part No.	Description			Re	mark
C15	1-164-080-11	CERAMIC	390PF	10%	50V		JW57	1-216-296-00	METAL CHIP	0	5%	1/8W	
							JW58	1-216-296-00	METAL CHIP	0	5%	1/8W	
C17		CERAMIC CHIP.	27PF	5%	50V		JW59	1-216-296-00	METAL CHIP	0	5%	1/8W	
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	ĺ							
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V		JW60	1-216-296-00	METAL CHIP	0	5%	1/8W	
C22	1-136-157-00	FILM	0.022uF	5%	50V	-	JW61	1-216-296-00	METAL CHIP	0	5%	1/8W	
C23	1-124-234-00	ELECT	22uF	20%	16V								
									< COIL >				
C24	1-136-273-91	FILM	75PF	5%	630V	İ							
C25	1-164-080-11		390PF	10%	50V		L11	1-410-780-11	INDUCTOR	27mH			
C27		CERAMIC CHIP	27PF	5%	50V		L21	1-410-780-11		27mH			
C28		CERAMIC CHIP	100PF	5%	50V	1							
C31	1-124-234-00		22uF	20%	16V				< TRANSISTOR	} .			
001	1 124 204 00	LLLOI	2201	. 2070	101	ļ			111111010101	•			
C32	1-124-234-00	FLECT	22uF	20%	16V	- 1	051	8-729-808-01	TRANSISTOR	2\$D1622-	.2		
				20%	16V		Q52	8-729-808-01		2SD1622-			
C33	1-124-234-00		22uF]		8-729-808-01					
C51		CERAMIC CHIP	0.0068uF	10%	50V	.	053			2SD1622-	3		
C52		CERAMIC CHIP		10%	50V		071	8-729-602-36	IKANSISIUK	2SA1602			
C53	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V								
									< RESISTOR >	•			
C54	1-136-559-11		0.0047uF	5%	630V								
C56	1-164-505-11	CERAMIC CHIP	2. 2uF		16V		R11	1-216-099-00	METAL CHIP	120K	5%	1/10W	
C57	1-164-346-11	CERAMIC CHIP	1uF		16V	-	R12	1-216-025-00	METAL CHIP	100	5%	1/10W	
C58	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V		R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W	
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V.	- 1	R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
						1	R15	1-249-430-11	CARBON	12K	5%	1/4W	
		< CONNECTOR >				1						•	
						[R21	1-216-099-00	METAL CHIP	120K	5%	1/10W	
* CN.131	1-580-782-11	CONNECTOR, BOAR	D'TO BOARD			1	R22	1-216-025-00		100	5%	1/10W	
		CONNECTOR, BOAR					R23	1-216-100-00		130K	5%	1/10W	
		SOCKET, CONNECT				ļ	R24	1-216-067-00		5. 6K	5%	1/10W	
		PIN, CONNECTOR		7 D		1	R25	1-249-430-11		12K	5%	1/4W	
		PIN, CONNECTOR				- }	NZJ	1-243-400 11	OANDON .	. 12 K	370	17 411	
* UNF/I	1-304-119-11	FIN, CONNECTOR	(SWALL III	L) VI		-	R31	1-216-033-00	METAL CHID	220	5%	1/10W	
		· DIADE >				- 1		1-216-033-00				-	
		< DIODE >				- 1	R32		•	220	5%	1/10W	
							R41	1-249-393-11		10	5%	1/4W	
D31	8-719-988-62	DIODE 188355					R42	1-249-393-11		10	5%	1/4W	
							R51	1-216-075-00	METAL CHIP	12K	5%	1/10W	
		< 10 >											
						- 1	R52	1-216-075-00		12K	5%	1/10W	
IC31	8-759-106-02	IC uPC4570G2					R53	1-216-073-00	METAL CHIP	10K	5%	1/10W	
							R54	1-216-309-00	METAL CHIP	5.6	5%	1/10W	
		< JUMPER >				1	R55	1-216-309-00	METAL CHIP	5.6	5%	1/10W	
							R56	1-216-298-00	METAL CHIP	2. 2	5%	1/10W	
JW1	1-216-296-00	METAL CHIP	0 5%	1/8	W -								
JW2	1-216-295-00		0 5%	1/1	ow	i	R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W	
JW3	1-216-295-00		0 5%	1/1			R72	1-216-081-00		22K	5%	1/10W	
JW4	1-216-295-00		0 5%	1/1		-	R73	1-216-089-00		47K	5%	1/10W	
JW5	1-216-295-00		0 5%	1/1		ĺ	R74	1-216-089-00		47K	5%	1/10W	
3113	1-210-233-00	MILIAL OITH	0 3/0	17 1			117	1 210 000 00	METAL OITT	7110	070	17 1011	
iuic	1-216-295-00	METAL CHID	0 5%	1/1	กพ				< VARIABLE F	ESISTAR >	•		
JW6									· FRATADEL P	120101011 /			
JW7	1-216-295-00		0 5%	1/1			- DM11	1 000 010 11	DEC ADI O	IDDAN 1V			
JW52	1-216-296-00		0 5%	1/8			RV11	1-238-012-11					
JW53	1-216-296-00		0 5%	1/8			RV12	1-238-551-11					
JW54	1-216-296-00	METAL CHIP	0 5%	1/8	W :		RV21	1-238-012-11					
4.5							RV22	1-238-551-11	RES, ADJ, CA	ARBON 220k			
JW55	1-216-296-00	METAL CHIP	0 5%	1/8	W		RV71	1-238-016-11	RES, ADJ, CA	ARBON 10K			

MD-B PANEL RECVOL

### 1-238-016-11 RES. ADJ. CARBON 10Y CRELAY CRELAY CRELAY S06 1-244-413-11 CARBON 410 505 1/4W	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description :		R	emark
R205 1-449-419-11 (ABRON 11	PV72	1-238-016-11	RES. ADJ. CARBON 10K		R904	1-249-413-11		470 5%	1/4W	
RY31	,,,,,	., 200 0.0			R905	1-249-415-11	CARBON	680 5%	•	
RY31 1-515-728-11 RELAY			< RELAY >		R906	1-249-417-11	CARBON	1 K 5%	1/4W	
COLL	,		The Entry of the E		R907	1-249-420-11	CARBON	1.8K 5%	1/4W	
COIL	DV91	1_515_726_11	RFI AV		R909	1-249-407-11	CARBON	150 5%	1/4W	
COULD Fig. Count	птэт	1-313-120 11	REENT					4 4 4		
### 1-466-419-11 COIL BIAS DSCILLATION ####################################			< COLL >		R910	1-249-409-11	CARBON	220 5%	1/4W	
Till 1-486-419-11 COIL BIAS OSCILLATION 1812 1-244-418-11 CABBON 320 5% 1/4W 1812 1-249-411-11 CABBON 320 5% 1/4W 1822 1-554-383-21 SWITCH, TACTILE (HIBH SPEED) 1-564-383-21 S			C GOTE >					330 5%	1/4W	
######################################		4 400 440 44	MOLTALLICON SALG 1100		1			1. 2K 5%	1/4W	
# A-2006-747-A PANEL BOARD, COMPLETE ###################################	⊺51	1-406-419-11	COIL, BIAS OSCILLATION	*****					•	
# A-2006-747-A PANEL BOARD, COWPLETE ***********************************	******	*****	**********	****					•	
######################################			- WELL BALLER GOLDLISTS		N320	1-243-411 11	ONIDOR			
# 3-362-478-21 HOLDER (T), LED	*	A-2006-747-A			0000	1 040 411 11	CADDON	220 5%	1 / AW	
# 3-362-478-21 HOLDER (T). LED # 4-921-941-01 CUSHION (FL) # 4-933-645-01 HOLDER (TC). FL TUBE			*****							
* 4-921-941-01 CUSHION (FL) 4 -921-941-01 CUSHION (FL) * 4-933-646-01 HOLDER (TC), FL TUBE CAPACITOR > C406										
# 4-921-941-31 CUSNION (FL) # 4-933-645-91 HOLDER (TC), FL TUBE	*	3-362-478-21	HOLDER (T), LED		R931					
* 4-933-646-01 HOLDER (TC), FL TUBE CAPACITOR > CA06	*	4-921-941-01	CUSHION (FL)		R932	1-249-411-11	CARBON	330 5%	1/4W	
CAPACITOR > C406 1-162-292-31 CERAMIC 680PF 10% 50V 50V 50V 50S 1-584-303-21 SWITCH. TACTILE (HIGH SPEED) C407 1-182-292-31 CERAMIC 680PF 10% 50V 50V 50S 1-584-303-21 SWITCH. TACTILE (MEMORY) C408 1-162-292-31 CERAMIC 0.01uF 20% 25V 50S 1-584-303-21 SWITCH. TACTILE (MEMORY) C901 1-161-379-00 CERAMIC 0.01uF 20% 25V 50S 1-584-303-21 SWITCH. TACTILE (MEMORY) C001 1-161-379-00 CERAMIC 0.01uF 20% 25V 50S 1-584-303-21 SWITCH. TACTILE (MEMORY) C001 1-161-379-00 CERAMIC 0.01uF 20% 25V 50S 1-584-303-21 SWITCH. TACTILE (MEMORY) C002 1-161-379-00 CERAMIC 0.01uF 20% 25V 50S 1-584-303-21 SWITCH. TACTILE (FADE) S910 1-584-303-21 SWITCH. TACTILE (FADE) S911 1-584-303-21 SWITCH. TACTILE (EDIT) S912 1-584-303-21 SWITCH. TACTILE (EDIT) S912 1-584-303-21 SWITCH. TACTILE (EDIT) S913 1-584-303-21 SWITCH. TACTILE (EDIT) S914 8-719-301-38 LED SEL2210S-C 50S					1					
1-162-292-31 CERAMIC S80PF 10% 50V S902 1-564-303-21 SWITCH, TACTILE (WIGH SPEED)	*						< SWITCH >			
1-162-292-31 CERAMIC S80PF 10% 50V S902 1-564-303-21 SWITCH, TACTILE (WIGH SPEED)			< CAPACITOR >		-					
C406			Vinino i vin		\$901	1-554-303-21	SWITCH, TACTILE	(HIGH SP	EED)	
Consider	0.406	1 160 000-01	CERAMIC SAMPE 10	% 50V	Į.					
C-008 T-162-292-30 CERAMIC 680PF 10% 50V C901 1-161-379-00 CERAMIC 0.01uF 20% 25V S907 1-564-303-21 SWITCH, TACTILE ((A/B)										
1-161-378-00 CERAMIC 0.11uF 20% 25%										
C902 1-161-378-00 CERAMIC										
Section Sect	C901				3901	1-004-000 2	OWITON, INOTICE	(11/ 0)		
CONNECTOR S910 1-554-303-21 SWITCH, TACTILE (FADE) S911 1-554-303-21 SWITCH, TACTILE (EDIT) S912	C902	1-161-379-00	CERAMIC 0.01uF 20	J% 25V	0000	1 554 000 0	LOWLTON TACTILE	(C EADE)		

# CN901 1-568-836-11 SOCKET. CONNECTOR 17P			< CONNECTOR >							
<pre></pre>										
C DIODE C VIBRATOR	* CN901	1-568-836-11	SOCKET, CONNECTOR 17P		\$912	1-554-303-2	I SWITCH, TACITLE	(IIME)		
D901 8-719-301-38 LED SEL2210S-C D902 8-719-301-38 LED SEL2210S-C D903 8-719-301-38 LED SEL2210S-C D904 8-719-301-38 LED SEL2210S-C D906 8-719-301-38 LED SEL2210S-C D907 8-719-301-38 LED SEL2210S-C D908 8-719-301-38 LED SEL2210S-C D909 8-719-301-38 LED SEL2210S-C SEL210S-C SEL2210S-C SEL210S-C SEL2210S-C SEL2210S-C SEL2210S-C SEL2210S-C SEL2210S-C SEL210S-C SEL2210S-C SEL2210S-C SEL2210S-C SEL2210S-C SEL2210S-C SEL					Ì			- 1 - 12 - 12 - 12 - 12 - 12 - 12 - 12		
10901 8-719-301-38 LED SEL2210S-C			< DIODE >		-		< VIBRATOR >			
10901 8-719-301-38 LED SEL2210S-C			and the second of the second of the second							
D302	0901	8-719-301-38	LED SEL2210S-C							
D903 8-719-301-38 LED SEL2210S-C D904 8-719-301-38 LED SEL2210S-C D906 8-719-987-63 DIODE 1N4148M <pre></pre>					******	******	**************	******	*****	*****
1-643-528-11 RECVOL BOARD										
######################################					*	1-643-528-1	1 RECVOL BOARD			
<pre></pre>							******			
FL901 1-519-741-11 INDICATOR TUBE, FLUORESCENT	0906	8-119-981-03	DIODE INTITOM							
FL901 1-519-741-11 INDICATOR TUBE, FLUORESCENT			Z ELHADEONENT INDICATAD				< CAPACITOR >			
C C C C C C C C C C			< FLOORESCENT INDICATOR >				V OM MOTION /			
C C C C C C C C C C			TURE STURE STURE		0014	1_164_150_1	1 CERAMIC	0 1uF		50V
C901 8-759-321-92 C HD6140228 * CN508 1-568-832-11 SOCKET. CONNECTOR 13P	FL901	1-519-741-1	I INDICATOR TUBE, FLUORESCENT		6014	1-104-133-1	I VERMITO	v. 141		
C901 8-759-321-92 C HD6140228 * CN508 1-568-832-11 SOCKET. CONNECTOR 13P							A CONNECTOR N			
C901 8-759-321-92 C HD614022S							< CONNECTOR >			
C901 8-759-321-92 C HD614022S										
<pre></pre>	10901	1 8-759-321-92	2 IC HD6140228		* CN508	1-568-832-1	1 SOCKET, CONNECT	UK 13P		
Q901 8-729-900-61 TRANSISTOR DTA114ES D805 8-719-987-63 DIODE 1N4148M D806 8-719-987-63 DIODE 1N4148M D806 8-719-987-63 DIODE 1N4148M K401 1-249-405-11 CARBON 100 5% 1/4W D806 8-719-987-63 DIODE 1N4148M D806 R806 R806 D806 R806 R806 R806 R806 R806 R806 R806 R										
R401 1-249-405-11 CARBON 100 5% 1/4W R402 1-249-405-11 CARBON 100 5% 1/4W R403 1-249-405-11 CARBON 100 5% 1/4W R901 1-249-407-11 CARBON 150 5% 1/4W R901 1-249-407-11 CARBON 220 5% 1/4W R902 1-249-409-11 CARBON 220 5% 1/4W			< TRANSISTOR >				< DIODE >			
R401 1-249-405-11 CARBON 100 5% 1/4W R402 1-249-405-11 CARBON 100 5% 1/4W R403 1-249-405-11 CARBON 100 5% 1/4W R901 1-249-407-11 CARBON 150 5% 1/4W R901 1-249-407-11 CARBON 220 5% 1/4W R902 1-249-409-11 CARBON 220 5% 1/4W										
R401 1-249-405-11 CARBON 100 5% 1/4W R402 1-249-405-11 CARBON 100 5% 1/4W R403 1-249-405-11 CARBON 100 5% 1/4W R901 1-249-407-11 CARBON 150 5% 1/4W R901 1-249-407-11 CARBON 220 5% 1/4W R902 1-249-409-11 CARBON 220 5% 1/4W	0001	8-720-000-6	1 TRANSISTOR DTA114ES		D805	8-719-987-6	3 DIODE 1N4148	Á		
<pre></pre>	4901	0 123 300-0	,							
C C C C C C C C C C			Z RESISTOR S							
R401 1-249-405-11 CARBON 100 5% 1/4W R402 1-249-405-11 CARBON 100 5% 1/4W R403 1-249-405-11 CARBON 100 5% 1/4W R901 1-249-407-11 CARBON 150 5% 1/4W R902 1-249-409-11 CARBON 220 5% 1/4W R902 1-249-409-11 CARBON 220 5% 1/4W			NEGIGION /				< 10 >			
R402 1-249-405-11 CARBON 100 5% 1/4W IC806 8-759-820-62 IC LB1639 R403 1-249-405-11 CARBON 100 5% 1/4W R901 1-249-407-11 CARBON 150 5% 1/4W < TRANSISTOR > R902 1-249-409-11 CARBON 220 5% 1/4W			4 04 DD0N 400 F9/	1 / 414/						
R403 1-249-405-11 CARBON 100 5% 1/4W R901 1-249-407-11 CARBON 150 5% 1/4W R902 1-249-409-11 CARBON 220 5% 1/4W					10000	9_750_000 6	2			
R901 1-249-407-11 CARBON 150 5% 1/4W < TRANSISTOR >	R402				10800	0-109-070-0	Z 10 ED1003			
ROD2 1-249-409-11 CARBON 220 5% 1/4W	R403	1-249-405-1					/ TOLUCIOTOR -			
	R901	1-249-407-1								
Q807 8-729-900-65 TRANSISTOR DTA144ES	R902	1-249-409-1	1 CARBON 220 5%	1/4W						
					0807	8-729-900-6	5 TRANSISTOR D	1A144ES		

RECVOL SW-A SW

Ref. No.	Part No.	Description	Remark
Q808	8-729-900-89	TRANSISTOR DTC144ES	
		< RESISTOR >	
R125	1-249-429-11	CARBON 10K 5%	1/4W
R225	1-249-429-11		1/4W
R832	1-249-412-11	CARBON 390 5% 1	1/4W
R833			1/4W
		< VARIABLE RESISTOR >	
		RES, VAR, CARBON 20KX3 (REC	
******	******	***********	********
*	1-634-841-14		

	3-343-419-01	HOLDER (S SENSER A)	
		< CONNECTOR >	
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P	. •
		< 10 >	
1081	8-719-710-03	DIODE NJL5165K-B	
		< RESISTOR >	
R84	1-249-417-11	CARBON 1K 5% 1	/4W
R85	1-249-408-11	CARBON 180 5% 1	/4W
		< SWITCH >	
\$81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP)	
\$82	1-571-281-21	SWITCH, LEAF (70EQ)	
\$86 *******		SWITCH, LEAF (HALF) ********************	****
r rrrrr			******
,	1-634-841-14	SW-B BOARD *******	
	3-343-419-01	HOLDER (S SENSER A)	
		< CONNECTOR >	
k CNP81	1-568-852-11	SÓCKET, CÓNNECTOR 9P	
		< 10">	
1C81	8-719-710-03	DIODE NJL5165K-B	
		< RESISTOR >	
R81	1-249-414-11	CARBON 560 5% 1	/4W
R82	1-247-818-11	· · · · · · · · · · · · · · · · · · ·	/4W
R83	1-247-834-11	LANDUN LAK 324 1	/4W

Ref. No.	Part No.	Descrip	tion			Remark
R85	1-249-408-11	CARBON		180	5%	1/4W
		< SWITCH	1 >			
\$81	1-571-958-11	SWITCH,	PUSH	(1 KEY)	(STOP)	
\$82	1-571-281-21	SWITCH,	LEAF	(70EQ)		
\$83	1-571-281-21	SWITCH,	LEAF	(METAL)		
\$84	1-571-281-21	SWITCH,	LEAF	(REC A)		
\$85	1-571-281-21	SWITCH,	LEAF	(REC B)		
\$86	1-571-281-21	SWITCH,	LEÁF	(HALF)		
******	*****	*****	****	******	*****	******

MISCELLANEOUS

*	5	1-574-726-11 WIRE, FLAT TYPE (13 CORE)	
	6	1-690-907-11 WIRE (FLAT TYPE) (17 CORE)	
	69	1-690-906-11 WIRE (FLAT TYPE) (9 CORE)	
	121	1-638-983-11 MOTOR FLEXIBLE BOARD	
	HP901	A-2003-837-A BASE ASSY, HEAD (PB) (DECK A)	
	HRPE90	1A-2003-838-A BASE ASSY, HEAD (REC/PB/ERASE)	(DECK B)
	M901A	X-3359-417-1 MOTOR ASSY (CAPSTAN) (DECK A)	
	M901B	X-3359-417-1 MOTOR ASSY (CAPSTAN) (DECK B)	
	M902A	X-3363-501-1 MOTOR ASSY (REEL) (DECK A)	
	M902B	X-3363-501-1 MOTOR ASSY (REEL) (DECK B)	

ACCESSORIES & PACKING MATERIALS **************

3-350-154-01 CUSHION 4-920-940-01 SHEET (A), PROTECTION

HARDWARE LIST

#1	7-685-646-79	SCREW	+BVTP	3 X 8	TYPE2	N-S
#2	7-621-773-93	SCREW	(PANEL	2. 6	TP2)	

#3 7-685-645-79 SCREW +BVTP 3X6 TYPE2 N-S

#4 7-621-775-00 SCREW +B 2.6X3

#5 7-627-556-08 SCREW +P 2.6X2.8

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